

Saline River Bridge
Spanning Saline River at County Highway 365
Benton vicinity
Saline County
Arkansas

HAER No. AR-7

HAER
ARK,
63-BENT,
2-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD

SALINE RIVER BRIDGE

HAER NO. AR-7

LOCATION: Spanning the Saline River 1100 feet west of Interstate Highway 30 on County Highway 365 near the town of Benton, Saline County, Arkansas.

UTM: 15/3824385/353260
Quad: Benton, Arkansas

DATE OF
CONSTRUCTION: 1928

MAJOR ALTERATIONS
AND ADDITIONS: In 1973, one of the approach spans on the west end collapsed and was replaced with a steel girder span with steel side rails.

ENGINEER & BUILDER: Designed by the Arkansas Highway and Transportation Department bridge engineering division under the supervision of N. B. Garver, Bridge Engineer.
Built by the Arkansas General Construction Company of Little Rock, Arkansas.

STYLE: Two-span, open-spandrel, reinforced concrete deck arch bridge.

SIGNIFICANT FEATURES A commemorative plaque, on the right-hand side of both ends of the bridge, states "Saline River; Ark. General Const. Co.; Contractor; Arkansas; State Highway Department; 1928, Bridge No. ____".

PRESENT CONDITION
AND USE: This bridge is in poor condition but is still being used for vehicular traffic.

SIGNIFICANCE: The Saline River Bridge is one of only ten unaltered, reinforced concrete, open-spandrel, deck arch bridges currently surviving in Arkansas. Constructed as part of a six bridge improvement project on the Benton-Malvern Road beginning two miles west of Benton, it reflects the AHTD's substantial influence in reinforced concrete bridge design and construction in Arkansas.

HISTORIAN: Michael Swanda
Survey Coordinator
Arkansas Historic Preservation Program
Date: August 26, 1988.

HAER
ARK.
63-BENT
2-

STRUCTURAL SYSTEMS

The two main arch spans, girder approach spans, and guardrails are constructed of reinforced concrete. The bridge contains 2,632 cubic feet of cast concrete, 3,580 linear feet of precast concrete piling, 3,580 linear feet of concrete railing, and 460,444 pounds of reinforced steel.

DIMENSIONS

The total length of the Saline River Bridge is 1218 feet. The two main spans each contain two open spandrel arches that measure 110 feet in length. The arch height is approximately 33 feet above the springline of the center pier. There are six reinforced concrete spandrel columns, square in section with caps at the top and bottom, that rise from each arch rib to support stringers directly over the ribs. This system supports a 20-foot-wide road.

The concrete guardrail measures 2'-6" above the top of the curb. Reinforced concrete girders are used in the approach spans. The east approach contains two spans measuring 25 feet each. The west approach contains twenty-seven spans, each measuring 35 feet in length.

ADDITIONAL INFORMATION

Shop Drawings for the Saline River Bridge are filed at the AHTD; Drawing No. 922, 923, 924, 925, 926, 927, 928, 929 and Standard Drawing No. 1001, and 1019. AHTD Bridge No.414, AHPP Resource No. SA0020.

SOURCES OF INFORMATION

Bridge Division Files, Arkansas Highway and Transportation Department, Little Rock.

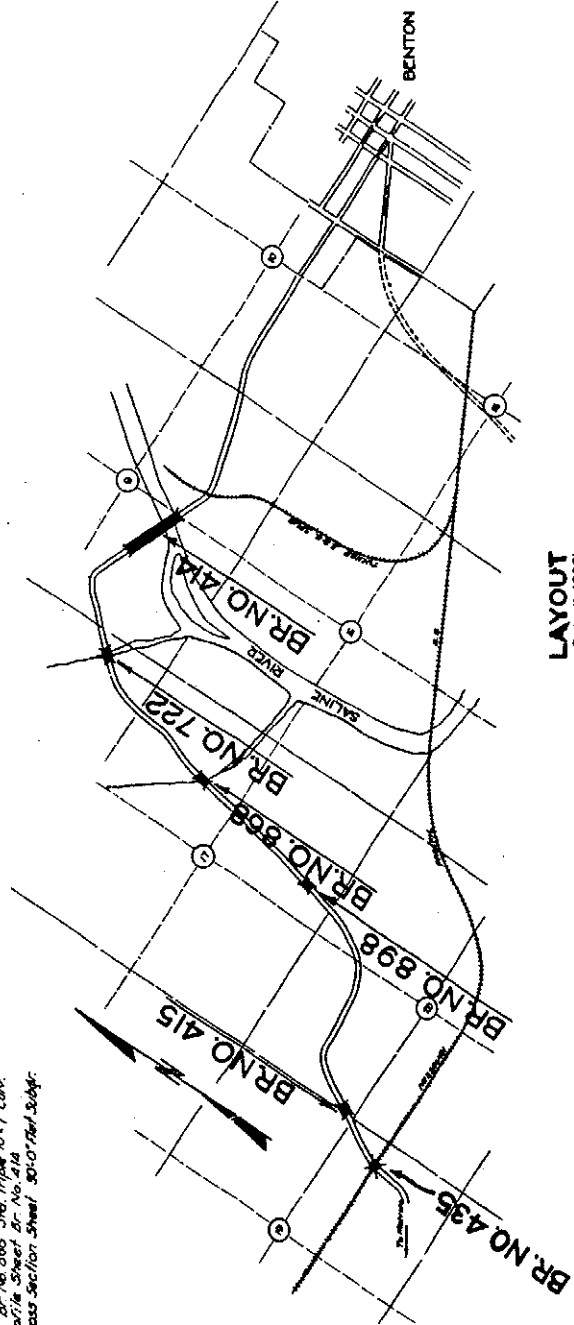
Historic Bridge File, Arkansas Historic Preservation Program, Little Rock.

McClurkan, Burney B. Arkansas' Historic Bridge Inventory, Evaluation Procedures 1987 and Preservation Plan. Manuscript of file, Environmental Division, Arkansas Highway and Transportation Department, Little Rock.

Item No.	Quantity	Unit	Price	Total
1	100	Yds	1.25	125.00
2	100	Yds	1.25	125.00
3	100	Yds	1.25	125.00
4	100	Yds	1.25	125.00
5	100	Yds	1.25	125.00
6	100	Yds	1.25	125.00
7	100	Yds	1.25	125.00
8	100	Yds	1.25	125.00
9	100	Yds	1.25	125.00
10	100	Yds	1.25	125.00
11	100	Yds	1.25	125.00
12	100	Yds	1.25	125.00
13	100	Yds	1.25	125.00
14	100	Yds	1.25	125.00
15	100	Yds	1.25	125.00
16	100	Yds	1.25	125.00
17	100	Yds	1.25	125.00
18	100	Yds	1.25	125.00
19	100	Yds	1.25	125.00
20	100	Yds	1.25	125.00
21	100	Yds	1.25	125.00
22	100	Yds	1.25	125.00
23	100	Yds	1.25	125.00
24	100	Yds	1.25	125.00
25	100	Yds	1.25	125.00
26	100	Yds	1.25	125.00
27	100	Yds	1.25	125.00
28	100	Yds	1.25	125.00
29	100	Yds	1.25	125.00
30	100	Yds	1.25	125.00
31	100	Yds	1.25	125.00
32	100	Yds	1.25	125.00
33	100	Yds	1.25	125.00
34	100	Yds	1.25	125.00
35	100	Yds	1.25	125.00
36	100	Yds	1.25	125.00
37	100	Yds	1.25	125.00
38	100	Yds	1.25	125.00
39	100	Yds	1.25	125.00
40	100	Yds	1.25	125.00
41	100	Yds	1.25	125.00
42	100	Yds	1.25	125.00
43	100	Yds	1.25	125.00
44	100	Yds	1.25	125.00
45	100	Yds	1.25	125.00
46	100	Yds	1.25	125.00
47	100	Yds	1.25	125.00
48	100	Yds	1.25	125.00
49	100	Yds	1.25	125.00
50	100	Yds	1.25	125.00
51	100	Yds	1.25	125.00
52	100	Yds	1.25	125.00
53	100	Yds	1.25	125.00
54	100	Yds	1.25	125.00
55	100	Yds	1.25	125.00
56	100	Yds	1.25	125.00
57	100	Yds	1.25	125.00
58	100	Yds	1.25	125.00
59	100	Yds	1.25	125.00
60	100	Yds	1.25	125.00
61	100	Yds	1.25	125.00
62	100	Yds	1.25	125.00
63	100	Yds	1.25	125.00
64	100	Yds	1.25	125.00
65	100	Yds	1.25	125.00
66	100	Yds	1.25	125.00
67	100	Yds	1.25	125.00
68	100	Yds	1.25	125.00
69	100	Yds	1.25	125.00
70	100	Yds	1.25	125.00
71	100	Yds	1.25	125.00
72	100	Yds	1.25	125.00
73	100	Yds	1.25	125.00
74	100	Yds	1.25	125.00
75	100	Yds	1.25	125.00

**ROUTE 67 SEC. 9
JOB NO 666
FEDERAL AID PROJECT NO.**

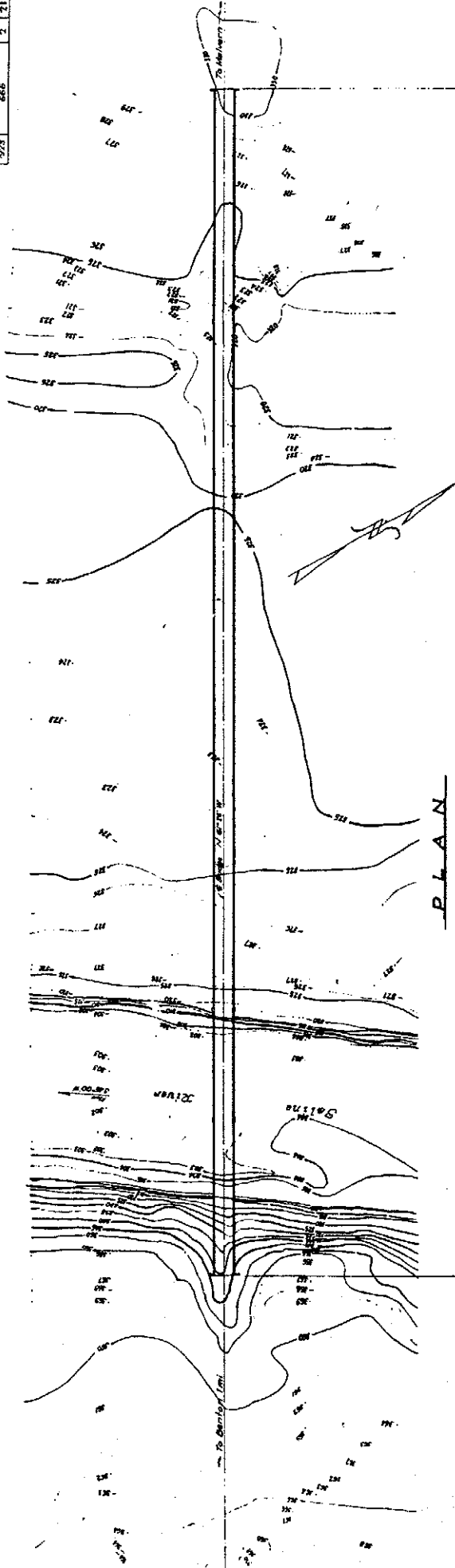
Sheet No.	Index of SHEETS
1	Drain No. 912
2	Leakoff No. 912
3	Leakoff No. 914
4	Leakoff No. 914
5	Leakoff No. 914
6	Leakoff No. 914
7	Leakoff No. 914
8	Leakoff No. 914
9	Leakoff No. 914
10	Leakoff No. 914
11	Leakoff No. 914
12	Leakoff No. 914
13	Leakoff No. 914
14	Leakoff No. 914
15	Leakoff No. 914
16	Leakoff No. 914
17	Leakoff No. 914
18	Leakoff No. 914
19	Leakoff No. 914
20	Leakoff No. 914



LAYOUT

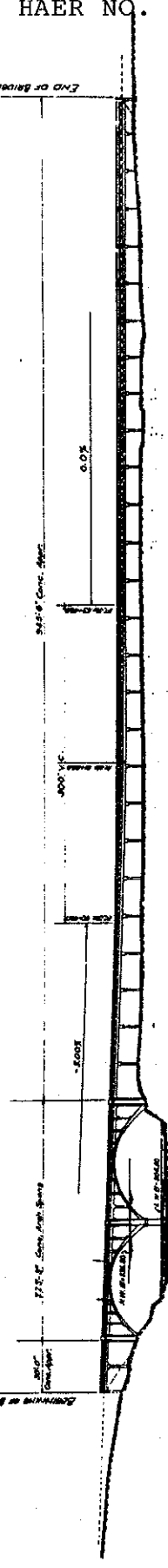
GROSS LENGTH OF PROJECT = 2410×10^3 ft. Δ 4.35 MI.
NET LENGTH OF PROJECT = 2410×10^3 ft. Δ 4.35 MI.

JOB NO.	666
DATE	2-21
BY	
CHECKED BY	



PLAN

Overall Length of Bridge - 1718.5'



ELEVATION

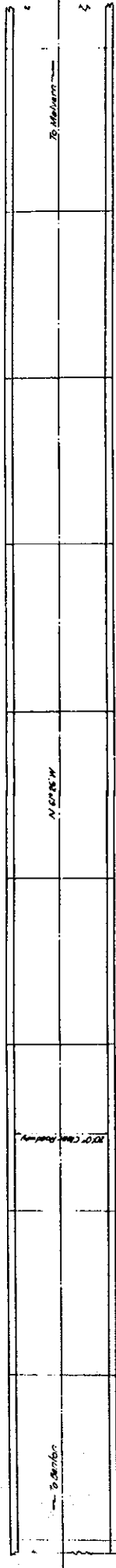
FOR DETAILS SEE DRAWINGS NO. 924-925-926
927-928-929-1001 and 1019.

LAYOUT OF
BRIDGE OVER SALINE RIVER
SALINE COUNTY

ROUTE 67 SEC. 9
ARKANSAS STATE HIGHWAY DEPARTMENT
BRIDGE NO. 414
DATE: 1-1-58
DRAWN BY: J. H. B.
CHECKED BY: J. H. B.
SCALE: 1" = 50'

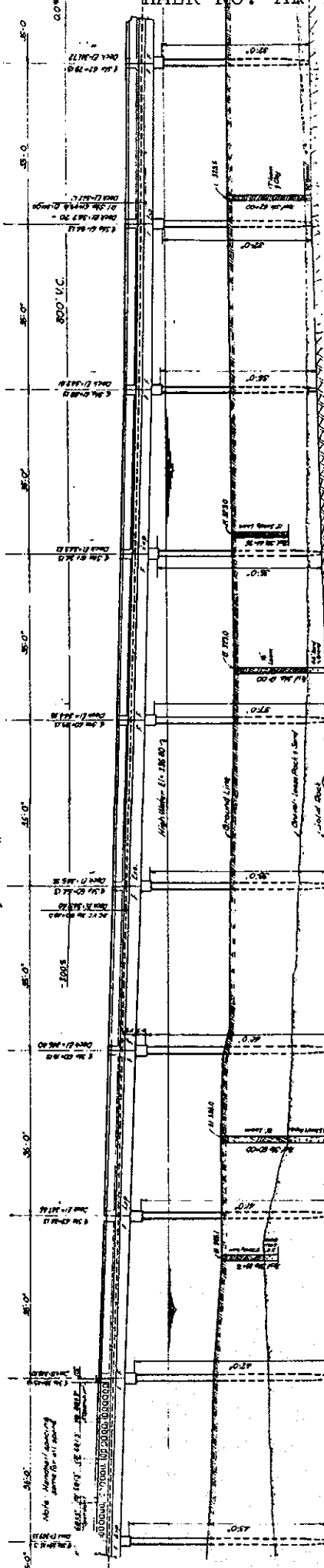
J. H. B.
BRIDGE ENGINEER

Sheet No.	318	of	318
Project No.	665	of	665
Drawn by	W.B. Gamm	Checked by	W.B. Gamm



PLAN

As Spans @ 35'0" and 1 Span @ 58'0" = 945'6" R.C.D. Girder Approach
 As Girder Details See Drawing No. 929
 As Details of Handrail See Drawing No. 929 is to be used
 Note: Type of Handrail shown on Drawing No. 929 is to be used
 although another type is shown on Bridge Detail.

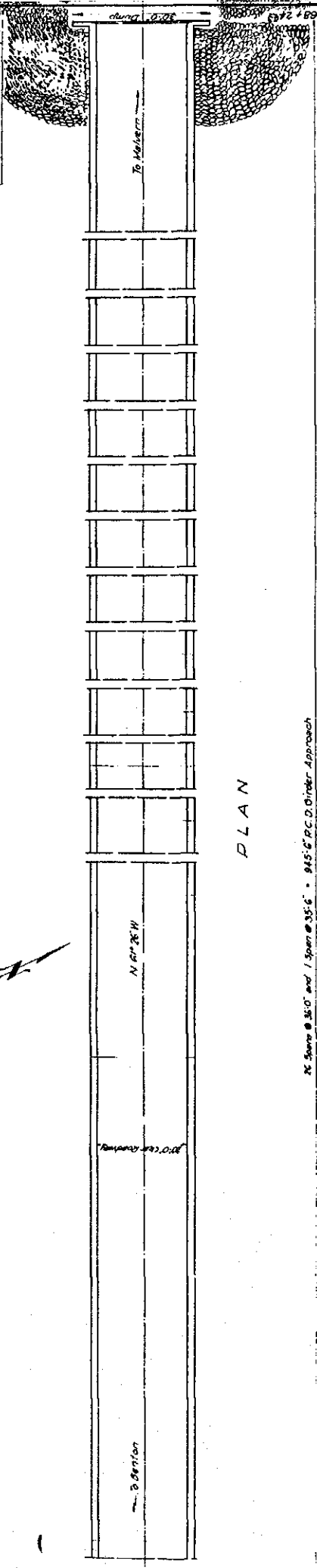


ELEVATION

GENERAL NOTES:
 1. All dimensions are for estimating purposes only.
 2. Actual depths to be determined in the field.
 3. See General Notes on Drawing No. 929.

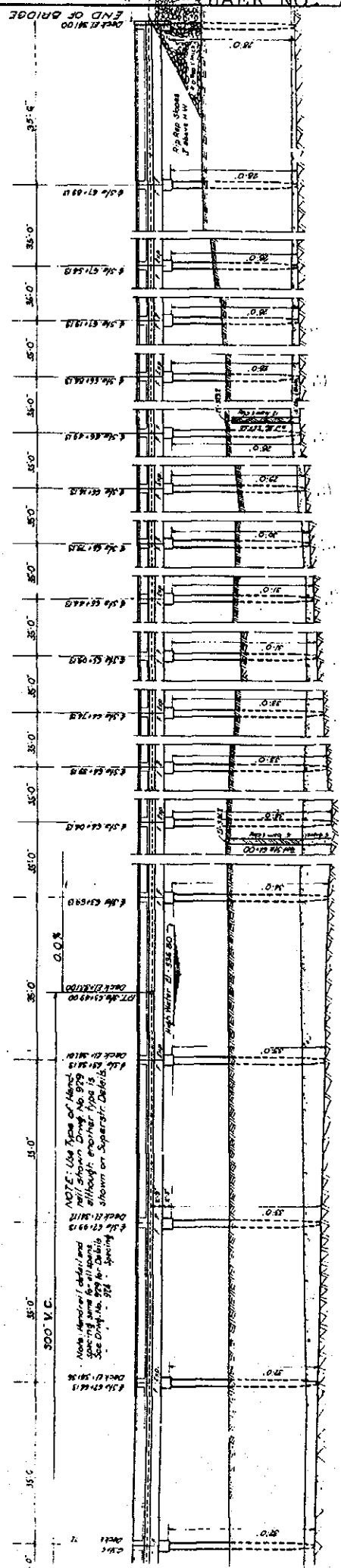
LAYOUT OF
 PART OF WEST APPROACH
 TO ARCH BRIDGE OVER SALINE R.
 SALINE COUNTY
 ROUTE 67 SEC. 9
 ARKANSAS STATE HIGHWAY DEPARTMENT
 LITTLE ROCK, ARK.
 Drawn by: W.B. Gamm
 Checked by: W.B. Gamm
 Scale: 1" = 10'-0"
 Bridge No. 414
 DRAWN

Sheet No.	5
Job No.	68-243
Date	1952



PLAN

NOTE: See Type of Road Bridge No. 929 for Order Details. See Drawing No. 1019 for Handrail Details. See Drawing No. 929 for Order Details.



ELEVATION

General Notes: The Lengths shown are for Estimating Purposes only. Actual lengths are to be determined in the field. See General Notes on Drawing No. 929.

LAYOUT OF
PART OF WEST APPROACH
TO ARCH BRIDGE OVER SALINE R.
SALINE COUNTY
ROUTE 67 SEC. 9
ARKANSAS STATE HIGHWAY DEPARTMENT
Little Rock, Ark.
Drawn by: J. B. Bower
Checked by: J. B. Bower
Scale: 1" = 10' H.
BRIDGE NO. 414
DRAWING NO. 929

